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L2 and screw cap	4

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JPO Abstracts Database	
EPO Abstracts Database	
Derwent World Patents Index	▼
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L6

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 result set
*DB=DWPI; PLUR=YES; OP=ADJ*

<u>L6</u>	L2 and screw cap	4	<u>L6</u>
<u>L5</u>	L2 and easy open	14	<u>L5</u>
<u>L4</u>	L2 and (polyvinyl chloride or PVC)	98	<u>L4</u>
<u>L3</u>	L2 and crown cork	8	<u>L3</u>
<u>L2</u>	L1 and (closure or cap or eas\$2y)	666	<u>L2</u>
<u>L1</u>	metal and \$2polyester and (\$5layer or laminate\$1)	7645	<u>L1</u>

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L3 and (polyvinyl chloride or PVC)	9

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DB=USPT; PLUR=YES; OP=ADJ

L4 L3 and (polyvinyl chloride or PVC)L3 L2 and metalL2 L1 and (\$2polyester and crystallizable)L1 428/35.3 or 428/35.8 or 428/458 or 428/461 or 428/483**Hit Count Set Name**

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9 L450 L378 L28496 L1

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09/936044

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## Freeform Search

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Term:

L3 and (coextru\$4) [ab,clm,ti]

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<u>L4</u>	L3 and (coextru\$4)[ab,clm,ti]	35	<u>L4</u>
<u>L3</u>	L2 and (\$2extrusion or \$2extruding or \$2extrude or \$2extruded)	381	<u>L3</u>
<u>L2</u>	L1 and (polyethylene terephthalate or PET)	476	<u>L2</u>
<u>L1</u>	film and \$2polyester and \$4crystallizable	943	<u>L1</u>

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DB=USPT; PLUR=YES; OP=ADJ

L8 L7 and (coextru\$4)[ab,clm,ti]L7 L6 and (\$2extrusion or \$2extrude or \$2extruding)L6 L5 and (polyethylene terephthalate or PET)[ab,clm,ti]L5 L4 and crystalliz\$6L4 L3 and terephthal\$3L3 L2 and naphthal\$5L2 L1 and copoly\$5L1 525/\$10 and \$2polyesterHit Count Set Name

result set

6 L8126 L7177 L6772 L52947 L44182 L316732 L222008 L1

5'8137

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SN. 09/936044



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L2: Entry 6 of 21

File: DWPI

Dec 8, 1992

DERWENT-ACC-NO: 1993-024265

DERWENT-WEEK: 199939

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TITLE: Resin-coated metal plate for forming container - prepd. by plating metal base with nickel@ etc., then coating with thermoplastic polyester resin compsn. for high impact resistance etc.

PRIORITY-DATA: 1991JP-0129790 (May 31, 1991)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 04353443 A	December 8, 1992		007	B32B015/08
JP 2937547 B2	August 23, 1999		007	B32B015/08

INT-CL (IPC): B29C 71/02; B29K 67/00; B29L 22/00; B32B 15/08; B65D 65/40; C08G 63/16; C08G 63/183

ABSTRACTED-PUB-NO: JP 04353443A

## BASIC-ABSTRACT:

A resin-coated metal plate is prepd. by plating the surface(s) of a metal plate with Sn, Ni, Zn, Cr, etc. or converting chemically the surface(s) with hydrated oxide of P or Cr or plating one surface of a metal plate with Sn, Ni, Zn, Cr, etc. and converting another surface with hydrated oxide of P or Cr and coating the surface(s) with a thermoplastic polyester resin compsn. prepd. by melt reacting 95-5 wt.% crystalline polyester and 5-95 wt.% non-crystalline polyester in an alloying ratio = 5-100 deg.C as calculated from formula (I).

Tm1 and Tg1 are each a m.pt. or a glass transition temp. of crystalline polyester resin, Tm2 and Tg2 are each a m.pt. or a glass transition temp. of the melt blended polyester resin after the completion of ester interchanging reaction, i.e. a m.pt. or a glass transition temp. of the random copolyester having the same compsn. as the resin blend and Tm3 and Tg3 are each a m.pt. or a glass transition temp. of the non-crystalline polyester.

The crystalline polyester is e.g. polyethylene terephthalate, polybutylene terephthalate, polyethylene naphthalate, etc. and has a m.pt. = at least 200 deg.C. The non-crystalline polyester is e.g. polyethylene terephthalate copolymer contg. 30 mol.% cyclohexane dimethanol, polyethylene terephthalate copolyester contg. at least 20 mol.% isophthalic acid, polyacrylate or polyesterpolycarbonate and has a glass transition temp. = at least 20 deg.C. The resin of the formed can has a crystallinity = 0-5% after dry or wet heating.

ADVANTAGE - The resin-coated metal plate has high canning workability and retains low crystallinity of the polyester blend on the heat treatment during the printing or retort sterilisation to provide high adhesion and impact resistance of the coated resin.

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L3: Entry 7 of 19

File: DWPI

Jan 10, 1992

DERWENT-ACC-NO: 1992-061522

DERWENT-WEEK: 199208

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TITLE: Resin-coated metallic prod. - comprises metal substrate melt laminated with thermoplastic adhesive resin and PVC resin

PRIORITY-DATA: 1990JP-0111031 (April 25, 1990)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 04007142 A	January 10, 1992		000	

INT-CL (IPC): B32B 15/08

ABSTRACTED-PUB-NO: JP 04007142A

## BASIC-ABSTRACT:

The surface of a metal prod. is melt laminated with a thermoplastic adhesive resin having a melt index = 0.01-5 as measured at 180 deg C and a load = 2.16 kg and polyvinyl chloride resin having a polymerisation deg. = 400-1300.

The metal substrate is e.g., Al, steel, Cu, etc. and pretreated by degreasing, pickling or blasting to remove impurities and fouling. The polyvinyl chloride resin is e.g. polyvinyl chloride homopolymer, vinyl chloride/vinyl acetate copolymer, ethylene/vinyl chloride/vinyl acetate terpolymer, ethylene/vinyl acetate copolymer, etc. having the specified deg. of polymerisation for providing high mouldability, mechanical and chemical properties and blended opt. with a stabiliser, working aid, lubricant, impact resistance improver, etc. The adhesive resin is pref. satd. crystalline polyester resin, polyamide resin or resin of hot melt type blended with an inorganic filler or a crosslinked partly to provide a high mol. wt. or blended with a resin having a high melt viscosity to control the melt index = 0.01-5. The lamination of adhesive resin and polyvinyl chloride resin are coated on the metal substrate by the co-extrusion.

ADVANTAGE - The adhesive layer and the polyvinyl chloride resin layer are melt laminated uniformly and firmly with the metal substrate.

PALM INTRANET

Day : Thursday

Date: 3/27/2003

Time: 08:24:29

**Inventor Name Search Result**

Your Search was:

Last Name = BEENTJES

First Name = PETRUS

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>09936044</u>	Not Issued	030	12/18/2001	PROCESS FOR PRODUCING A PLASTIC WEB FOR COATING METAL SUBSRATE, LAMINATE COMPRISING THIS PLASTIC WEB, AND PRODUCT OR COMPONENT PRODUCED THEREWITH	BEENTJES, PETRUS CORNELIS JOZEF
<u>10276177</u>	Not Issued	019	01/01/0001	METHOD AND DEVICE FOR COATING A MOVING METAL PRODUCT STRIP	BEENTJES, PETRUS CORNELIS JOZEF
<u>09423708</u>	<del>6458235</del>	150	03/14/2000	METHOD OF COATING A METALLIC SUBSTRATE WITH THERMOPLASTIC COATING MATERIAL	BEENTJES, PETRUS CORNELIS JOZEF
<u>09341637</u>	Not Issued	041	09/03/1999	METHOD AND APPARATUS FOR STRIP-COATING A METALLIC STRIP-SHAPED SUBSTRATE WITH A PLASTIC BAND AND STRIP THUS OBTAINED	BEENTJES, PETRUS CORNELIUS JOZEF

**Inventor Search Completed: No Records to Display.**Search Another:  
Inventor

Last Name

BEENTJES

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PETRUS

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Day : Thursday

Date: 3/27/2003

Time: 08:24:37

**PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = DEN HARTOG

First Name = ADRIANUS

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>08454310</u>	<u>5609841</u>	150	10/19/1995	METHOD AND APPARATUS FOR TREATING A FLOW OF GAS CONTAININ OXIDIZED SULPHUR COMPOUNDS	DEN HARTOG , ADRIANUS J.
<u>08875875</u>	<u>5891408</u>	150	09/18/1997	PROCESS FOR PURIFYING FLUE GAS CONTAINING NITROGEN OXIDES	DEN HARTOG , ADRIANUS JOHANNES
<u>09936044</u>	Not Issued	030	12/18/2001	PROCESS FOR PRODUCING A PLASTIC WEB FOR COATING METAL SUBSRATE, LAMINATE COMPRISING THIS PLASTIC WEB, AND PRODUCT OR COMPONENT PRODUCED THEREWITH	DEN HARTOG , ADRIANUS JOHANNES

**Inventor Search Completed: No Records to Display.****Search Another:  
Inventor****Last Name**

DEN HARTOG

**First Name**

ADRIANUS

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Day : Thursday

Date: 3/27/2003

Time: 08:24:46

**PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = VAN VEENEN

First Name = WILLEM

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>09936044</u>	Not Issued	030	12/18/2001	PROCESS FOR PRODUCING A PLASTIC WEB FOR COATING METAL SUBSTRATE, LAMINATE COMPRISING THIS PLASTIC WEB, AND PRODUCT OR COMPONENT PRODUCED THEREWITH	VAN VEENEN, WILLEM JAN
<u>09914645</u>	Not Issued	071	11/19/2001	PROCESS FOR THE WALL IRONING OF A PRODUCT IN SHEET FORM, AND A WALL IRONING TOOL	VAN VEENEN, WILLEM JAN
<u>09423708</u>	<u>6458235</u>	150	03/14/2000	METHOD OF COATING A METALLIC SUBSTRATE WITH THERMOPLASTIC COATING MATERIAL	VAN VEENEN, WILLEM JAN

**Inventor Search Completed: No Records to Display.****Search Another:  
Inventor****Last Name**

VAN VEENEN

**First Name**

WILLEM

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File: DWPI

Oct 1, 1987

DERWENT-ACC-NO: 1987-278793

DERWENT-WEEK: 198740

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TITLE: Foil for use in packaging industry - has metal layer on its surface with poor adhesion at certain points so that it is easily removed mechanically

INVENTOR: SCHMOOCK, H

PRIORITY-DATA: 1986DE-3610379 (March 27, 1986)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 3610379 A	October 1, 1987		008	

INT-CL (IPC): B32B 15/08; B41M 1/00; B44C 1/22; C08J 5/18; C08L 23/10; C08L 25/06; C08L 27/06; C08L 67/00; C23F 17/00

ABSTRACTED-PUB-NO: DE 3610379A

## BASIC-ABSTRACT:

A foil made pref. of PVC, polyester, polystyrene or polypropylene, carries on its surface a metal layer which is partly interrupted, e.g. by spots or logos. The metal layer is actually applied all over but at certain points is deposited on a substrate with poor adhesion (lacquer) so that it is easy to remove from them by mechanical means.

ADVANTAGE - This is a simple way of producing an attractive looking packaging foil, even multicoloured, at low cost.